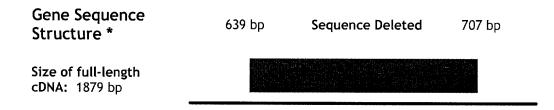
CCACGCGTCCGCGGGAGCTGCTTGGAGGCTCGGCGGCCGGGAGGAGGCCGGGGCCACGCTTCTTGGAA GCTACTGAGTGACTTCTTTGAAGAACCATGAAGTCACACTATATTGTGCTAGCTCTAGCCTCCCTGACGT TCCTGCTGTGTCTCCCCGTGTCCCAGAGCTGTAACAAAGCACTCTGTGCCAGCGATGTGAGCAAATGCCT CATTCAGGAGCTCTGCCAGTGCCGGCCTGGAGAAGGGAACTGCCCCTGCTGTAAGGAGTGCATGCTGTGC CTCGGGGCCCTGTGGGACGAGTGCTGCGACTGTGTCGGTATGTGCAACCCTCGGAATTACAGCGACACCC CGCCCACATCCAAGAGCACCGTGGAGGAGCTGCACGAGCCCATTCCGTCCCTGTTCAGGGCGCTGACGGA GGGCGACACCCAGCTGAACTGGAACATCGTCTCCTTCCCTGTGGCAGAGGAGCTGTCACACCATGAAAAC CTAGTCTCCTTCCTAGAAACTGTGAACCAGCTGCACCAAAACGTGTCTGTTCCCAGCAACAATGTCC CCAGTGTAAGATATCCTGCGAATCCATGGGTGCATCCAAGTATCGCTGGTTTCACAACGCCTGCTGCGAG TGCATCGGTCCAGAGTGCATTGACTATGGGAGTAAAACTGTCAAGTGTATGAACTGCATGTTTTAAAGAG GGGGAAGAAATGCAAACCAAAGCAAGAACGCTGACGATGCCGTTGACACTCCTACCTTGCAGGATGTCCC CACAGAGTCCACTGGACCAGCTTGTACAAGGGTGAAACCTTTCTGCGTCACCTTTCTGCTTTTGCAGAGC ATCAGGGTGGCCTAGCACATTTGTGGGTGCTGATGTTGTATTGCACTGTCAAAGACTGACCAGTCCTGAT AGGGCTGGAAAGAGGAAAGGGGTGTGGGAAGGTGACTTTCTTAGCTCTCCCGTAGCACCACACACTGTCATA GTGTCTCAGTGTCATATTGCTGTGAAGAGACACCACAACCAAGGCAGCTTATGAAGAAAGCCCTTAATTA TGGTGCTGGAGCAGTAGCTGAATGTTGGTTCACAAACTTAGCACCTCGAGTCATGATAGAAACACCATCC AGGCCTTGAAGCCCAACACGTAGCAACACCCACTTGCCAAAGCAGGATCAAGGCTCTGTCAGCGTCCCAGG TCTTCTTGTTAACTATATGTCCAGAACCATTTCAGAATATGG

MKSHYIVLALASLTFLLCLPVSQSCNKALCASDVSKCLIQELCQCRPGEGNCPCC KECMLCLGALWDECCDCVGMCNPRNYSDTPPTSKSTVEELHEPIPSLFRALTEG DTQLNWNIVSFPVAEELSHHENLVSFLETVNQLHHQNVSVPSNNVHAPFPSDKE RMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKC MNCMF (SEQ ID NO:2)

<u>red underlined</u> = deleted in targeting construct

green = sequence flanking Neo insert in targeting construct

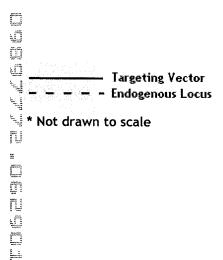
CCACGCGTCCGCGGGAGCTGCTTGGAGGCTCGGCGGGGCCGGGAGGAGGCCGGGGCCACG $\tt CTTCTTGGAAGCTACTGAGTGACTTCTTTGAAGAACCATGAAGTCACACTATATTGTGCT$ AGCTCTAGCCTCCCTGACGTTCCTGCTGTGTCTCCCCGTGTCCCAGAGCTGTAACAAAGC ACTCTGTGCCAGCGATGTGAGCAAATGCCTCATTCAGGAGCTCTGCCAGTGCCGGCCTGG AGAAGGGAACTGCCCTGCTGTAAGGAGTGCATGCTGTGCCTCGGGGCCCTGTGGGACGA GTGCTGCGACTGTGTCGGTATGTGCAACCCTCGGAATTACAGCGACACCCCGCCCACATC CAAGAGCACCGTGGAGGAGCTGCACGAGCCCATTCCGTCCCTGTTCAGGGCGCTGACGGA GGGCGACACCCAGCTGAACTGGAACATCGTCTCCTTCCCTGTGGCAGAGGAGCTGTCACA CCATGAAAACCTAGTCTCCTTCCTAGAAACTGTGAACCAGCTGCACCACCAAAACGTGTC TGTTCCCAGCAACAATGTCCACGCCCCCTTCCCCAGCGACAAAG [AGCGCATGTGCACAGT GGTTTACTTTGATGACTGCATGTCCATCCACCAGTGTA] AGATATCCTGCGAATCCATGGG ${f TGCATCCAAGTATCGCTGGTTTCACAACGCCTGCTGCGAGTGCATCG}$ [${f GTCCAGAGTGCAT}$ TGACTATGGGAGTAAAACTGTCAAGTGTATGAACTGCATGTTTTAAAGAGGGGGAAGAAA ${\tt TGCAAACCAAAGCA}$ AGAACGCTGACGATGCCGTTGACACTCCTACCTTGCAGGATGTCCC ${ t CACAGAGTCCACTGGACCAGCTTGTACAAGGGTGAAACCTTTCTGCGTCACCTTTCTGCT}$ GTGTCATGTGACAGGCAGCCATCAGGGTGGCCTAGCACATTTGTGGGTGCTGATGTTGTA ${ t TTGCACTGTCAAAGACTGACCAGTCCTGATAGGGCTGGAAAGAGGGGAAAGGGGTGTGGGAA}$ GGTGACTTTCTTAGCTCTCCCGTAGCAGCACACTGTCATAGTGTCTCAGTGTCATATTGC TGTGAAGAGACACCAACCAAGGCAGCTTATGAAGAAAGCCCTTAATTAGGGCTCGCTT TGGTGCTGGAGCAGTAGCTGAATGTTGGTTCACAAACTTAGCACCTCGAGTCATGATAGA ${\tt AACACCATCCAGGCCTTGAAGCCCAACACGTAGCAACACCACTTGCCAAAGCAGGATCAA}$ ${\tt GGCTCTGTCAGCGTCCCAGGATGCAGTTGGGCAAGTTCTTGAGTGAAATTCCTATACATA}$ ${\tt TTCAGAATATGGGTTTTTGTGAATAAAAAAAAAAAAAAGGCCTGGTCTGCATAGATTGGG}$ CAAGTTCCCTTGCAGCCACAGGCTAACAGTAAAGACTTTCTATTTGGCTTTAGGAGTATC ${\tt CAAGGGGTGGTCTCTCGTGAGAGTACCTCGCAACAGCAGCAGATGGTGTTGGAGGCTTGG}$ $\verb|CCTGCTGTGGGCTTTTGAAACCTTAAAGTCCACCCCCAGTGACACGCCTCCTCCAATAAC| \\$ ACCACACCTCCTAATCCTTTCTAAGTAGTCCCTCAACTGGGAACCAAGCATTCAGATATA CGAGCCCACAAAGGCCATTCTCGTTCAAACCACCACATGTAATAAAATATATGCCACGTC AAAAAAAAAAAAAAAA (SEQ ID NO:1)

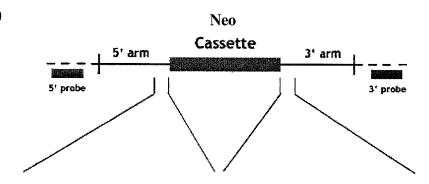


Targeting Vector* (genomic sequence)

Construct Number: 203

Arm Length: 5': 1.9 kb 3': 3.6 kb





5'>AACAAATGAAGATCTTTTGTC CCTCGTTTTTGTCCTGTGCTGATG AGCAGTAAGAGGGCTAGAAAGTAA CTGCAGGTATTCTCTGAGCAAGCG AGCGAGTGGCCGAGCTCTTCCTGC CTGTACTGAAATGTCCCTTTGCAT TTCAGAGCGCATGTGCACAGTGGT TTACTTTGATGACTGCATGTCCAT CCACCAGTGTA<3' (SEQ ID NO:3) 5'>GTCCAGAGTGCATTGACTATG
GGAGTAAAACTGTCAAGTGTATGA
ACTGCATGTTTTAAAGAGGGGGAA
GAAATGCAAACCAAAGCAGTAAGT
CATGAAGTGTGCAGAAATCTTGGT
TCTGGTATGCTAGGAGTGTGTTAA
GTTATATGATTGTAACTGTGCTTT
TTATATCTGGTGCCTATTAGTGTA
GGTCTTTTCCA<3' (SEQ ID
NO:4)

FIG. 2B